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(19) **United States**(12) **Patent Application Publication****CROWE, JR. et al.**(10) **Pub. No.: US 2021/0300999 A1**(43) **Pub. Date: Sep. 30, 2021**(54) **HUMAN MONOCLONAL ANTIBODIES TO SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS 2 (SARS-COV-2)**(71) Applicant: **Vanderbilt University**, Nashville, TN (US)(72) Inventors: **James E. CROWE, JR.**, Nashville, TN (US); **Seth ZOST**, Nashville, TN (US); **Robert CARNAHAN**, Nashville, TN (US); **Pavlo GILCHUK**, Nashville, TN (US)(73) Assignee: **Vanderbilt University**, Nashville, TN (US)(21) Appl. No.: **17/212,949**(22) Filed: **Mar. 25, 2021****Related U.S. Application Data**

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2020, provisional application No. 63/024,248, filed on May 13, 2020, provisional application No. 63/027,173, filed on May 19, 2020, provisional application No. 63/037,984, filed on Jun. 11, 2020, provisional application No. 63/040,224, filed on Jun. 17, 2020, provisional application No. 63/040,246, filed on Jun. 17, 2020, provisional application No. 63/142,196, filed on Jan. 27, 2021, provisional application No. 63/161,890, filed on Mar. 16, 2021.

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CPC ..... **C07K 16/10** (2013.01); **A61K 2039/505** (2013.01); **G01N 33/56983** (2013.01); **A61P 31/14** (2018.01)**ABSTRACT**

(57) The present disclosure is directed to antibodies binding to and neutralizing the coronavirus designated SARS-CoV-2 and methods for use thereof.

**Specification includes a Sequence Listing.**